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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/858,146	05/15/2001	Lawrence Wilcock	B-4182 618805-0	2516

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EXAMINER

SHARMA, SUJATHA R

ART UNIT	PAPER NUMBER
2684	11

DATE MAILED: 07/12/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

**Office Action Summary**

Application No.

09/858,146

Applicant(s)

WILCOCK ET AL.

Examiner

Sujatha Sharma

Art Unit

2684

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --**  
**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on 19 May 2004.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1-19 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-19 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  
a) ☐ All b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- \* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  
Paper No(s)/Mail Date \_\_\_\_\_.
- 4) ☐ Interview Summary (PTO-413)  
Paper No(s)/Mail Date. \_\_\_\_\_.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: \_\_\_\_\_.

*Claim Rejections - 35 USC § 103*

1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

2. Claim 1,3-5,8-11,14,16-18, is rejected under 35 U.S.C. 103(a) as being unpatentable over Mannings [US 6,650,284] in view of Wortham [US 6,748,226].

Regarding claims 1,14, Mannings discloses a navigation information system. Mannings further discloses a method of obtaining location updates from a first source of location data about the mobile object wherein the interval is varied in dependence on the provision of location data about the mobile object from one other source of location data. See col. 1, lines 62-67, col. 3, lines 33-52, col. 4, lines 23-42col. 10, lines 59-65,col. 11, lines 61-65, col. 15, lines 25-40.

Mannings however does not disclose a method of obtaining location updates from 2 sources and providing the correction to the mobile station in order to obtain a more accurate position of the mobile device.

Wortham discloses a method of obtaining the location data from two independent sources and providing the correction to the mobile station in order to obtain a more accurate position of the mobile device. See col. 1, lines 50-65.

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Therefore it would have been obvious to one with ordinary skill in the art at the time the invention was made to provide the teachings of Wortham to Mannings in order to provide a more refined position of the mobile station.

Regarding claims 3-5 and 16-18, Mannings discloses a method wherein the update interval increases with the speed of the moving object and therefore update interval is dependent on the accuracy of the location data received from at least one other source of location data. See col. 15, lines 25-40.

Regarding claims 8,9, Mannings further discloses the update interval to be dependent on the current environment of the mobile entity. See col. 15, lines 25-40.

Regarding claim 10, Mannings further discloses a method wherein the environment information is derived from a map having regard to the current location of the mobile entity. See col. 2, lines 28-35, col. 12, lines 20-35 and 65-67.

Regarding claim 11, Mannings further discloses a method where the update interval is dependent on the progress of the location sensitive application. See col. 2, lines 28-35, col. 12, lines 20-67.

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3. Claim 2,6,7,12,13,15,19 are rejected under 35 U.S.C. 103(a) as being unpatentable over Mannings [US 6,650,284] in view of Wortham [US 6,748,226] and further in view of Taft [GB 2 339 356 A].

Regarding claim 2,15 Mannings as modified by Wortham discloses all the limitations as claimed. However he does not disclose a method where the one other source of location data is from short-range beacons.

Taft, in the same field of endeavor, teaches a method wherein the one other source of data being short-range location beacons. See Fig. 1; page 1, paragraph 4 ; page 2, paragraph 5 ; page 4, paragraphs 1,2,4,5.

Therefore it would have been obvious to one with ordinary skill in the art at the time the invention was made to provide the teachings of Taft to Wortham and Mannings in order to provide a more refined position of the mobile station.

Regarding claims 6,19, Taft further discloses the update intervals to be a function of the motion of the mobile object. See page 4, paragraphs 1,2,4,5.

Regarding claim 7, Taft further discloses a method wherein the frequency of updates increases with velocity of the mobile object. See page 4, paragraphs 1,2,4,5.

Regarding claim 12, Taft further discloses a method wherein the frequency of updates increases as the mobile object moves closer to the target location. See page 4, paragraphs 1,2,4,5.

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Regarding claim 13, Taft further discloses the update interval to be dependent on motion of the mobile object and progress of the location sensitive application. See page 4, paragraphs 1,2,4,5.

### *Conclusion*

1. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Jones [US 6,748,318]            Advanced notification systems and methods utilizing a computer network

Watters [US 6,249,245]        GPS and cellular system interworking

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Sujatha Sharma whose telephone number is 703-305-5298. The examiner can normally be reached on Mon-Fri 7.30am - 4.00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nay Maung can be reached on 703-308-7745. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



Sujatha Sharma  
June 21, 2004

  
NAY MAUNG

SUPERVISORY PATENT EXAMINER